ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 17	(123WPH) BR-2	OGLE	61	40
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT -	

SHEET NO. 1
10 SHEETS

CONTRACT #64417

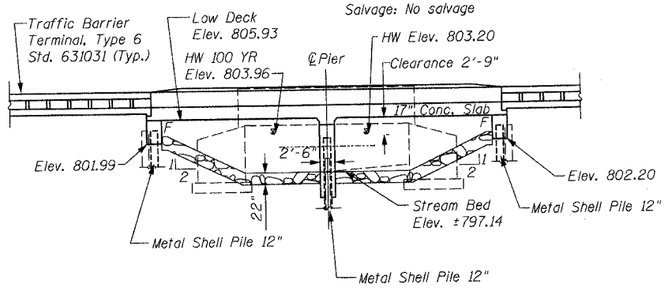
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCH MARK

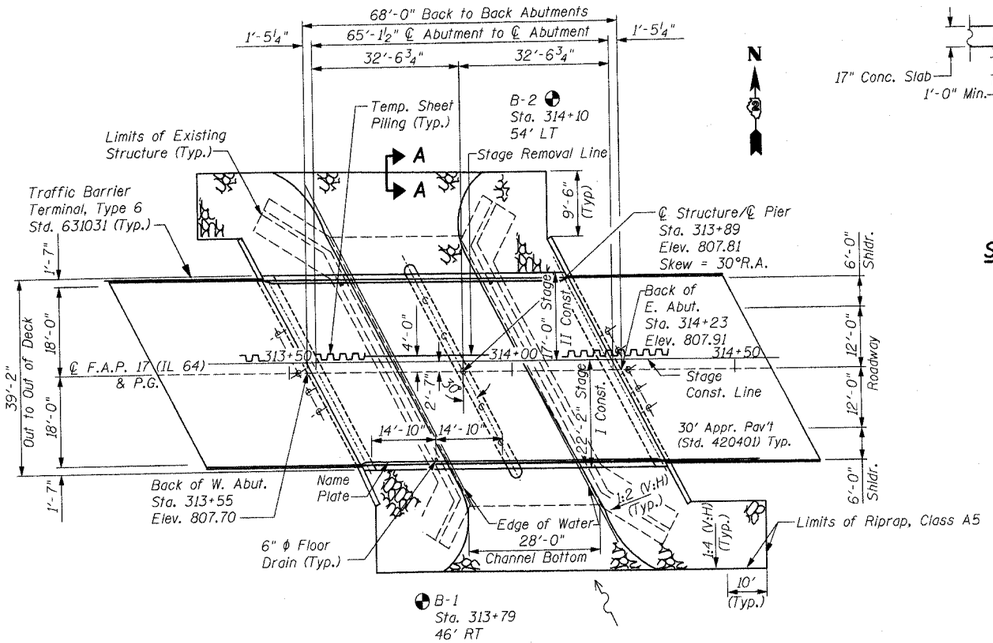
B.M. No.	Location	Elevation
1	Chiseled box cut on the top southwest corner of bridge STA. 313+84	810.14

EXISTING STRUCTURE:

Structure No. 071-0019 Sta. 313+89
Year Built: 1937
Existing Superstructure: Simple Span 6½" Reinforced Concrete Tee Beam Deck Slab with 36'-0" Span and 47'-6" Out to Out.
Existing Substructure: Closed Abutments on Spread Footing
Existing Structure to be removed and replaced.
One lane of traffic to be maintained utilizing Temporary Signals and Stage Construction.
Salvage: No salvage



ELEVATION VIEW



PLAN VIEW

WATERWAY INFORMATION

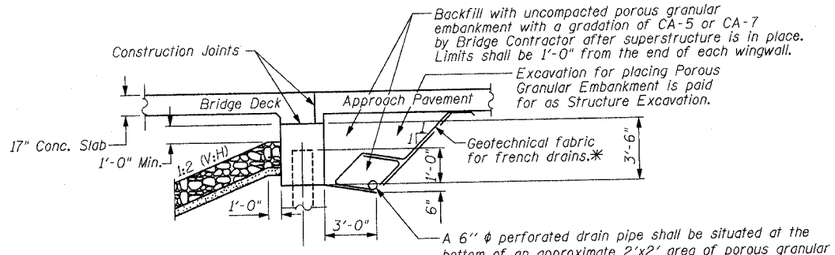
Drainage Area = 2.47 sq. mi. Low Grade Elev. 806.8 @ Sta. 310+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat.H.W.EL. Exist.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	799	131.9	215.3	803.20	2.5	1.76	805.7	804.96
Base	100	913	153.2	254.7	803.96	2.15	1.33	806.11	805.29
Overtopping									
Max. Calc.	500	1183	159.9	306.4	804.56	2.39	1.39	806.95	805.95

DESIGNED	KJW
CHECKED	AJS
DRAWN	KJW
CHECKED	AJS

TOTAL BILL OF MATERIAL

	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		81	81
Stone Riprap, Class A5	Sq. Yd.		522	522
Filter Fabric for use with Riprap	Sq. Yd.		522	522
Removal of Existing Structures - No. 2	Each	1		1
Structure Excavation	Cu. Yd.		176	176
Floor Drains	Each	4		4
Concrete Structures	Cu. Yd.		81.1	81.1
Concrete Superstructure	Cu. Yd.	158		158
Bridge Deck Grooving	Sq. Yd.	268		268
Protective Coat	Sq. Yd.	330		330
Reinforcement Bars, Epoxy Coated	Pound	37030	7970	45000
Furnishing Metal Pile Shells 12"	Foot		995	995
Driving and Filling Shells	Foot		995	995
Test Pile Metal Shells	Each		2	2
Temporary Sheet Piling	Sq. Ft.		994	994
Name Plates	Each	1		1
Underwater Structure Excavation	Each		1	1
Protection - Location 2				
Bar Splicers	Each	120	42	162



*Included in the cost of Porous Granular Embankment

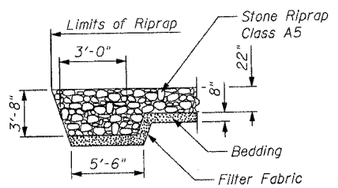
SECTION THRU ABUTMENT

Horizontal Dim. @ Rt. L's

STATION 313+89
BUILT 200_ BY
STATE OF ILLINOIS
FA Rte. 17
SECTION (123WPH) BR-2
LOADING HS20
STR. NO. 071-0092

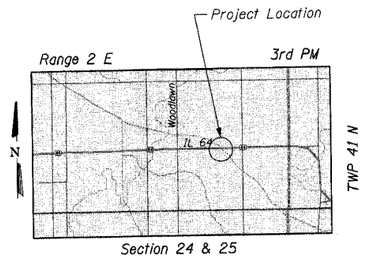
NAME PLATE

See Std. 515001



SECTION A-A

Stone Riprap Toe Anchor Detail



Section 24 & 25

LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

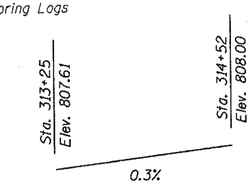
ENGINEER OF BRIDGES AND STRUCTURES

ANTHONY J. STANDISH
081-005819
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. The contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
3. The contractor shall drive 1 metal shell test pile in a permanent location at each abutment as directed by the engineer before ordering the remainder of the piles.
4. All construction joints shall be bonded.
5. Excavation behind existing abutment walls shall be done before removing existing superstructure. The contractor shall saw cut the existing abutments at the stage removal line before stage I removal.
6. Layout of the slope protection may be varied in the field to suit ground conditions as directed by the engineer.

INDEX OF SHEETS



PROFILE GRADE

F.A.P. 17
Illinois 64
(Along ℄ Roadway)

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035
Site Coefficient (S) = 1.2

STRAND ASSOCIATES, INC. ENGINEERS

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN, NOTES, INDEX, & QUANTITIES
IL 64 OVER KILBUCK CREEK
F.A.P. RTE. 17 SECTION (123WPH) BR-2
OGLE COUNTY
STA. 313+89
S.N. 071-0092

SCALE:

DATE: 06/23/2004